NAMIE	Stream
553/1	
BIOLOGY	
Paper 1	
2024	
2½ hours	

COMPETENCE BASED CURRICULUM ASSESSMENT

End of term examination 2024 BIOLOGY

Paper

Theory

2 hours 30 minutes

INSTRUCTIONS TO CANDIDATES

- This paper consists of two sections A and B
- Section A consists of 3 compulsory scenario-based items with broken tasks.
 Response to this section must be written in the spaces provided. Section B consists of four scenario items. Respond to two items of your choice selecting one from each part.
- Begin the responses to each item in section B on a fresh page. Candidates are advised to write neatly, organizing their answers with drawings where necessary.

Section	Score	Examiner's initials
A		
Item		
Item		
Total Score		

SECTION A (30 scores)

Item 1.

1.	Byarugaba and Mukose are both part of your football team. Before the	е
	match your trainer always requires you to engage in a warm up training	,•
	Mukose and others always comply with the trainer's suggestion, bu	t
	Byarugaba always refuses to take part in the warm up believing that he's	S
	saving energy for the match rather than wasting it.	
	(a) Do you think Byarugaba's act is a good idea? Give a reason for you	r
	answer? (02 scores)	
	(b) Between Byarugaba and Mukose, who is likely to perform better	r
	during the match? Why? (04 scores)	
	(c) i) Who is likely to develop a muscle cramp? (01 scores)	
	(c) -)	
	ii) What causes of muscle cramps (03 scores)	
) I	

Item 2

Mr. Nsamba's cassava garden was invaded by the neighbour's goats at the time of tuber formation. The owner of the goats refused to compensate Mr.Nsamba, and Mr.Nsamba is worried that the yield will be poor.



Task	
(a) Identify the plant structures affected by the goats.	(02 scores)
(b) Explain how the goats affected the processes in the case	
	(06 scores)

(c) why should Mr. Nsamba compensated even it cassava p	iains were able
to grow again?	(02 scores)

Item 3

John was suspended from school as a result of drinking alcohol. He engages in heavy drinking of alcohol in the nearby trading centre. One day, as John approached a swamp on his way home from drinking alcohol at 6:00 pm, he encountered a snake. His hearted beating faster and his breathing rate increased. He tried to picked a nearby stick but could not get hold of it on several attempts, so the snake escaped.



Task

(a) Describe how John's body coordinated to bring about his reactions from the time he encountered the snake up to when his rate of breathing increased. (05 scores)

	•••••
(b) What are the likely effects of John's lifestyle as deser-	cribed in the
scenario?	(03 scores)
	,
(c) Suggest ways in which John can change his lifestyle.	(02 scores)

SECTION B (40 scores)

Part I

Answer only **one** item from this part. Answers should be written on the answer sheet(s) provided. Each item carry **20** scores.

Item 4

In preparation for inter-house competition, Chesang, a 40kg female athlete ate a meal containing 470g of carbohydrates in the morning. She believes the meal will help her perform better during the competition. How ever her young brother seems to understand how meals contribute to her success. Chesang finally won the competition but experienced muscle cramps. She rested for 20 minutes, returned home walking but the brother wondered how she still had the strength to walk home after the competition.

[The recommended daily carbohydrate intake of a 40kg female athlete is (280-480g)]

Task

Explain to Chesang's brother the processes that the meal she ate went through to enable her win the race, be able to come back home and how her body regained normal state.

Item 5

A 70year old man in your neighborhood, has a swelling in the neck, frequent back pain and poor vision with inability to see objects close to him. The Doctor revealed that he has porous bones in her back.

Task.

Help his family members to know the complications the Man is suffering from, their causes and suggest suitable diet and eye defect correction that can manage his health condition.

Part II

Answer only **one** item from this part. Answers should be written on the answer sheet(s) provided. Each item carry20 scores.

Item 6

Kyato is a village in kassanda district which was infested with insects(locusts) The insects attacked and started destroying maize plantations. The farmers are complaining of the loss the insects are causing to their plants.

Task.

Describe to the farmers the methods they can use to mitigate the effect caused by the insects. Some methods can kill un intended insects which maybe of importance to the farmers. In your description include the importance of such insects to the farmers.

Item 7

According to New Vision news paper report Mulago hospital renal unit receives over 500 patients with kidney failure every year. About 60 patients are admitted per month but the dialysis unit has only 16 machines.

Task

As a student of biology write a sensitization message that can be published in news paper about, in your message include the causes of kidney failure, signs and symptoms of kidney failure, prevention and treatment of kidney failure.